

X(2370)

$$I^G(J^{PC}) = ?^?(?^{??})$$

NODE=M247

OMITTED FROM SUMMARY TABLE

X(2370) MASS

NODE=M247M

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
2341.6±6.5±5.7		¹ ABLIKIM	20Q BES3	$J/\psi \rightarrow \gamma K \bar{K} \eta'$
● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●				
2376.3±8.7 ^{+3.2} _{-4.3}	565	ABLIKIM	11C BES3	$J/\psi \rightarrow \gamma \pi^+ \pi^- \eta'$
¹ The state observed by ABLIKIM 11C at 2120 MeV is not observed with 90% CL upper limit of 1.49×10^{-5} for $J/\psi \rightarrow \gamma X(2120) \rightarrow \gamma K^+ K^- \eta'$ and 6.38×10^{-6} for $K_S^0 K_S^0 \eta'$.				

NODE=M247M

NODE=M247M;LINKAGE=A

X(2370) WIDTH

NODE=M247W

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
117±10± 8	¹ ABLIKIM	20Q BES3	$J/\psi \rightarrow \gamma K \bar{K} \eta'$
● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●			
83±17 ⁺⁴⁴ ₋₆	ABLIKIM	11C BES3	$J/\psi \rightarrow \gamma \pi^+ \pi^- \eta'$
¹ The state observed by ABLIKIM 11C at 2120 MeV is not observed with 90% CL upper limit of 1.49×10^{-5} for $J/\psi \rightarrow \gamma X(2120) \rightarrow \gamma K^+ K^- \eta'$ and 6.38×10^{-6} for $K_S^0 K_S^0 \eta'$.			

NODE=M247W

NODE=M247W;LINKAGE=A

X(2370) DECAY MODES

NODE=M247215;NODE=M247

Mode	Fraction (Γ_i/Γ)
Γ_1 $K^+ K^- \eta'$	seen
Γ_2 $K_S^0 K_S^0 \eta'$	seen
Γ_3 $\pi^+ \pi^- \eta'$	seen

DESIG=1

DESIG=2

DESIG=3

X(2370) BRANCHING RATIOS

NODE=M247225

$\Gamma(K^+ K^- \eta')/\Gamma_{\text{total}}$	DOCUMENT ID	TECN	COMMENT	Γ_1/Γ
VALUE				
seen	ABLIKIM	20Q BES3	$J/\psi \rightarrow \gamma K^+ K^- \eta'$	
$\Gamma(K_S^0 K_S^0 \eta')/\Gamma_{\text{total}}$	DOCUMENT ID	TECN	COMMENT	Γ_2/Γ
VALUE				
seen	ABLIKIM	20Q BES3	$J/\psi \rightarrow \gamma K_S^0 K_S^0 \eta'$	
$\Gamma(\pi^+ \pi^- \eta')/\Gamma_{\text{total}}$	DOCUMENT ID	TECN	COMMENT	Γ_3/Γ
VALUE				
seen	ABLIKIM	11C BES3	$J/\psi \rightarrow \gamma \pi^+ \pi^- \eta'$	

NODE=M247R01

NODE=M247R01

NODE=M247R02

NODE=M247R02

NODE=M247R00

NODE=M247R00

X(2370) REFERENCES

NODE=M247

ABLIKIM	20Q	EPJ C80 746	M. Ablikim <i>et al.</i>	(BESIII Collab.)
ABLIKIM	11C	PRL 106 072002	M. Ablikim <i>et al.</i>	(BESIII Collab.)

REFID=60457

REFID=53684